

<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	10/630,174	KANEKAR ET AL.	
	Examiner	Art Unit	
	Hashem Farrokh	2187	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/27/06.
2. ☒ The allowed claim(s) is/are 4-23 Renumbered 1-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
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**EXAMINER'S AMENMENT**

*The Examiner initiated a telephone interview with the Applicant (Mr. Kirk D. Williams 42,229) on 8/15/06. The examiner informed the Applicant that the computer readable medium recited in claims 15-19 and supported with description in page 9 to 10 of specification includes subject matters that make these claims non-statutory. The Applicant stated that on 3/3/06 an amendment to the specification has been filed to overcome the 101 related issues. However, the Applicant stated that he is willing to make further amendment to expedite the prosecution of the Application. Applicant made an amendment to specification and emailed on 8/15/06 a copy of the amendment to the Examiner. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.*

*Please amend the specification as follows:*

**Spec:**

*Page 1:*

*In page 1, line 6 after "10/215,719" insert --now U.S. Patent No. 7,103,708--*

*Page 9:*

*Replace the paragraph on page 9, starting with line 14 and ending on page 10, line 13 with the following:*

*--The term "storage mechanism" includes any type of memory, storage device or other mechanism for maintaining instructions or data in any format. "Computer-readable*

Art Unit: 2187

medium" is an extensible term including, but not limited to, any memory, storage device, storage mechanism, and/or other storage mechanism tangibly embodying computer-readable instructions and/or data. The term "memory" includes any random access memory (RAM), read only memory (ROM), flash memory, integrated circuits, and/or other memory components or elements. The term "storage device" includes, but is not limited to, any solid state storage media, disk drives, diskettes, networked services, tape drives, etc. Memories and storage devices may store computer-executable instructions to be executed by a processing element and/or control logic, and data which is manipulated by a processing element and/or control logic. The term "data structure" is an extensible term referring to any data element, variable, data structure, database, and/or one or more organizational schemes that can be applied to data to facilitate interpreting the data or performing operations on it, such as, but not limited to memory locations or devices, sets, queues, trees, heaps, lists, linked lists, arrays, tables, pointers, etc. A data structure is typically maintained in a storage mechanism. The terms "pointer" and "link" are used generically herein to identify some mechanism for referencing or identifying another element, component, or other entity, and these may include, but are not limited to a reference to a memory or other storage mechanism or location therein, an index in a data structure, a value, etc. The term "associative memory" is an extensible term, and refers to all types of associative memories, including, but not limited to, binary and ternary content addressable memories, hash tables, TRIE and other data structures, etc. Additionally, the term "associative memory unit" may include, but is not limited to one or more associative memory devices or parts thereof, including, but not limited to regions, segments, banks, pages, blocks, sets of entries, etc.--

*The following is an **Examiner's Statement of Reasons for Allowance** See*

***MPEP 1302.14***

1. *The primary reason for allowance of claims 4-9, and 15-19 in instant application is the combination with the inclusion of following limitations: **identifying a second set of access control list entries corresponding to a second feature of said plurality of access control list entries; programming a second associative memory bank and a second adjunct memory with second associative memory entries corresponding to the second set of access control list entries; wherein said first***

**associative memory entries have a higher lookup precedence than said second associative memory entries.**

2. *The primary reason for allowance of claims 10-14 in instant application is the combination with the inclusion of following limitations: **performing substantially simultaneous lookup operations in the plurality of associative memories and adjunct memories to generate a plurality of second lookup results; and merge the plurality of second lookup results and the merged first result to identify a merged second result.***

3. *The primary reason for allowance of claims 20-21 in instant application is the combination with the inclusion of following limitations: **means for identifying a second set of access control list entries corresponding to a second feature of said plurality of access control list entries; means for programming a second associative memory bank and a second adjunct memory with second associative memory entries corresponding to the second set of access control list entries; wherein said first associative memory entries have a higher lookup precedence than said second associative memory entries.***

4. *The primary reason for allowance of claims 22-23 in instant application is the combination with the inclusion of following limitations: **means for performing substantially simultaneous lookup operations in the plurality of associative memories and adjunct memories to generate a plurality of second lookup results; and means for merging the plurality of second lookup results and the merged first result to identify a merged second result.***

*The prior art of record including the disclosures of Torkelsson et al. (2004/0111556 A1), Kansal et al. (6,374,326 B1 to), Kansal et al. (6,374,326 B1), Hauser et al. (5,748,905), neither anticipates nor renders obvious the above-recited combination.*

*Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays should be clearly labeled "Comments on Statement of Reasons for Allowance"*

*Any inquiry concerning this communication should be directed to Hashem Farrokh whose telephone number is (571) 272-4193. The examiner can normally be reached Monday-Friday from **8:00 AM to 5:00 PM**.*

*If attempt to reach the above noted Examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Donald A Sparks, can be reached on (571) 272-4201. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published application may be obtained from either private PAIR or Public PAIR. Status information for unpublished application is available through Private PAIR only. For more information about PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBS) at 866-217-9197 (toll-free).*

HF

2006-08-13

  
Brian R. Feugh  
Primary Examiner